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An Enumeration of the Plants collected by Dr. H. H. Rusby in South  
America, 1885-1886, XXX

By H. H. RUSBY

(Continued from Bull. Torr. Club, 27: 84. 17 F. 1900.)

**Salvia Bridgesii** Britton, sp. nov.

Scurfy-tomentose, gray: stems erect or ascending, reddish, obtusely quadrangular, very leafy: petioles .5-1.5 cm. long, slender or stoutish: blades 3-6 cm. long, .7-1.5 cm. broad, lanceolate or lance-ovate, blunt to rounded at the base, acute or obtuse, finely crenate or crenate-dentate, thickish, above dark-green, minutely velutinous, finely bullate by the strongly impressed, finely reticulate venation, underneath bright-gray, the reddish midrib and 12-15 pairs of strongly ascending secondaries very prominent: bracts varying from ovate and 5 mm. long, to linear-attenuate and more than 1 cm. long: calyx (in flower) 1.5 cm. long, lip-ped one third of its length: corolla 2 cm. longer than the calyx, slender: stamens 5 mm. exserted, the nearly semicircularly curved anthers 3 mm. long, or nearly 4.5 mm. long if straightened, longer style-branch nearly 2 mm. long.

Vic. La Paz, 10000 ft., Apr., 1885 (no. 1496). The same as Mandon's no. 510. Dr. Britton says also collected by Bridges and Pearce, and nearest to *S. bullulata*.

Dr. Britton regards Rusby's no. 2439 as the same. Its leaves are much smaller, its calyx (in flower) 8 mm. long, its corolla 2 cm. long.

*Perilomia ocimoides* H.B.K. Nov. Gen. et Sp. 2: 328. Yungas 4000 ft., 1885 (no. 2155).

*Marrubium vulgare* L. Sp. Pl. 583. Near Valparaiso, Chili, June, 1885 (no. 1063).

*Stachys Bogotensis* H.B.K. Nov. Gen. et Sp. 2: 309. Unduavi, 8000 ft., Oct., 1885 (no. 1495), and Sorata, 10000 ft., Feb., 1886 (no. 1494).

*Stachys repens* Mart. et Gal. in Bull. Acad. Brux. 11: 194. 1844. Sorata, 10000 ft., Feb., 1886 (no. 2413). The same as Mandon's no. 521.

PLANTAGINACEAE.

*Plantago litorca* Phil. Fl. Atac. 46. Sorata, 10000 ft., Feb., 1886 (no. 2607).

*Plantago tomentosa* Lam. Illustr. 1: 340. Vic. La Paz, 10000 ft., April, 1885 (no. 666), Yungas, 4000 ft., 1885 (no. 667) and (?), Unduavi, 8000 ft., Oct., 1885 (no. 665).

*Plantago major* L. Sp. Pl. 112. Yungas, 6000 ft., 1885 (no. 668).

NYCTAGINACEAE

*Oxybaphus bracteosus* Griseb. in Goelt. Abh. 19: 86. 1874. Yungas, 4000 ft., 1885 (no. 2688).

*Oxybaphus micranthus* Choisy in DC. Prod. 13: 432. Vic. La Paz, 10000 ft., April, 1885 (no. 2868).

*Boerhaavia viscosa* Tag. & Rod. Anal. Cienc. Nat. 4: 256, no. 12. Yungas, 6000 ft., 1885 (no. 906).

*Boerhaavia crecta* L. Sp. Pl. 3. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 904).

*Collignoma parviflora* (H.B.K.) Endl. Gen. 311. Unduavi, 8000 ft., Oct., 1885 (no. 2706), and Sorata, 10000 ft., Feb., 1886 (no. 2705). The same as Mandon's no. 1007. The plant climbs, by reclining, to the height of 8 or 10 ft. in hedges. Its white bracts render it both conspicuous and handsome.

*Pisonia hirtella* H.B.K. Nov. Gen. et Sp. 2: 217. Mapiri, 25000 ft., May, 1886 (no. 2500). The same as Mandon's no. 1009.

***Pisonia Boliviana* Britton, sp. nov.**

Younger portions, inflorescence, petioles, etc., sparsely ferruginous-pubescent; branchlets short, weak, flexuous, spreading or recurved, leafy at the summit: petioles .5-1 cm. long, broad: blades .6-1.5 cm. long, 3-8 cm. broad, oval, varying to ovate or obovate, inaequilateral, abruptly or cuneately narrowed at the base, shortly and obtusely abrupt-pointed at the apex, entire, dark-green above, pale underneath, rather thin, the 8-10 pairs of slender, straight principal secondaries diverging nearly at right angles, connecting near the margin, alternating with lesser ones: peduncles about 1 cm. long, weak: panicles 1 or 2 cm. long and broad, loosely branched: flowers sub-sessile: bracts whitish, thickish, 1 mm. long, oval-ovate, obtuse, strongly ciliate: peri-

gone 4 mm. long, 2 mm. broad at the summit, campanulate-turbinate, the margin sinuately 5-lobed and plicate: stamens 10, exerted, the filaments thickened, united at the base: the anthers .5 mm. long and broad: pistillate flowers not seen.

Junction of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2502). No. 2501, from the same place, is immature. Dr. Britton regards it as the same, but this cannot be definitely stated from the material at hand.

***Neea longipedunculata* Britton, sp. nov.**

Younger portions of the stem and lower leaf-surfaces pubescent: branchlets stoutish, striate: petioles 2–5 mm. long, stout and broad: blades .5–1.5 dm. long, 2.5–5 cm. broad, obovate, mostly blunt or rounded at the base, abruptly short-acuminate and obtusish at the apex, entire, the venation very slender, inconspicuous both sides, the secondaries very irregular, communicating near the margin: flowers dioecious: peduncles of the pistillate flowers about .5–1.5 dm. long, sub-filiform: panicles 2–6 cm. broad, loosely flowered, triangular-subulate bracted, the bracts about 1 mm. long: flowers blackish as dried, sub-sessile, oblong with contracted mouth, 1 cm. long, 3 mm. broad, the lobes 2 mm. long, lightly recurved.

Reis, 1500 feet, June, 1886 (no. 2709).

***Neea macrophylla* Britton, sp. nov.**

Glabrous, drying blackish: branchlets stout, terete or angular at the summit: petioles 1 or 2 cm. long, very stout, sharply margined: blades 1.5–2 dm. long, .75–1 dm. broad, oval, rather abruptly narrowed into the petiole, short-acuminate and very acute, entire, membranous, the midrib and 12–16 pairs of slender secondaries lightly prominent above, strongly so underneath, the latter interarching at some distance from the margin, connected by the rather few, coarse tertiaries: cyme compound, shortly and stoutly peduncled, 1 dm. broad, the branches minutely ferruginous, thick and flattened after pressure: flowers sub-sessile, rather densely grouped: bracts lance-linear, slenderly acuminate, 1–2 mm. long: flowers (only the staminate seen) scarcely 1 cm. long, 3–4 mm. broad as pressed, oblong, contracted toward the summit of the tube, the 5 lobes a little more than 1 mm. long and rather broader, ovate, obtuse, thickened, papillose: stamens 8, the longest less than half the length of the corolla, the filaments thickened but weak, the anthers nearly 1 mm. long, almost as broad, light yellow, with a large black connective: pistil none.

Junction of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2119). Dr. Britton says: "also collected by Pearce at Montecrico, 3000-4000 ft., March, 1867."

Species peculiar in having the staminate flowers elongated.

*Cryptocarpus pyriformis* H.B.K. Nov. Gen. et Sp. 2: 188. *pl.* 124. Yungas, 6000 ft., 1885 (no. 2497).

### ILLECEBRACEAE

*Pentacaena ramossissima* (Weinm.) H. & A. Hook. Bot. Misc. 3: 338. 1833 (*Loeflingia ramossissima* Weinm. Flora, 2: 608. 1820). Sorata, 8000 ft., Feb., 1886 (no. 1524).

*Herniaria setigera* Gill. Hook. Bot. Misc. 3: 337. 1833. Yungas, 6000 ft., 1885 (no. 1791).

### AMARANTACEAE

(All the specimens pertaining to this family were taken for study by Professor Dr. Hans Schinz. No report has been received and there are no specimens in hand for our enumeration.)

### CHENOPODIACEAE

*Chenopodium ambrosioides* L. Sp. Pl. 219. Vic. La Paz, 10000 ft., Apr., 1885 (no. 1421).

*Atriplex Rusbyi* Britton, Mem. Torr. Club, 4: 250. Yungas, 6000 ft., 1885 (no. 1529).

#### **Atriplex** sp. (?)

Glabrous: stems filiform, twining: petioles 5-7 mm. long-rather broad: blades 1-2 cm. long, 4-8 mm. broad, triangular, lanceolate, shallowly cordate at the base, acuminate and acute, entire, 3-5-nerved, the nerves rather conspicuous on both sides: upper leaves becoming linear: racemes 2 or 3 cm. long, the peduncles about 1 cm. long, filiform, remotely-flowered, the flowers clustered: bracts about 1 mm. long and broad, ovate, green with white-scarious, ciliate margins: pedicels less than 1 mm. long, about as long as the flower: flowers staminate, the purplish perianth deeply 6-lobed: stamens 6, the anthers didymous, with a broad connective.

Unduavi, 8000 ft., Oct., 1885 (no. 2545). With the slender, twining habit and inflorescence of *Boussingaultia*, this species presents the staminate flowers and didymous anthers of *Atriplex*.

*Salicornia Peruviana* H.B.K. Nov. Gen. et Sp. 2: 193. Pisco, Peru, Feb., 1885 (no. 1528).

**Boussingaultia marginata** (Moq.) Britton (*Tandonia marginata* Moquin; DC. Prod. 13: 226). Vic. La Paz, 10000 ft., Oct., 1885 (no. 2570). The same collected by Holton at Chauchi, June 18, 1854, and in Herb. Kew. sub "*T. cordifolia*."

#### PHYTOLACCACEAE

*Villamilla octandra* (L.) Hook. f. in B. & H. f. Gen. 3: 81 (*Rivina octandra* L. Cent. Pl. 2: 9). Guanai, 2000 ft., May, 1886 (no. 1353), and Junc. Rivers Beni and Madre de Dios, Aug., 1886 (no. 741).

*Villamilla racemosa* Britton, Mem. Torr. Club, 4: 261. Yungas, 6000 ft., 1885 (no. 743).

*Petiveria alliacea* L. Sp. Pl. 342. Mapiri, 5000 ft., Apr., 1886 (no. 1368).

*Microtea Muypurensis* (Kunth.) G. Don, Lond. Hort. Brit. ed. 2, 98, n. 6423 (*Ancistrocarpus Muypurensis* Kunth. Humb. et Bonp. Nov. Gen. et Sp. 2: 186. n. 1. *pl.* 122). Beni River, July, 1886 (no. 1379).

*Phytolacca octandra* L. Sp. Pl. ed. 2. 631. Unduavi, 8000 ft., Oct., 1885 (no. 1961).

*Phytolacca thyrsiflora* Fenzl. West. Fl. Bras. 14<sup>2</sup>: 343. Mapiri, 5000 ft., Apr., 1886 (no. 742).

#### POLYGONACEAE

*Rumex cuneifolius* Campd. Monog. Rum. 66, 95. Vic. La Paz, 10000 ft., Apr., 1885 (no. 1526).

*Rumex conglomeratus* Murr. Prod. Fl. Gott. 52. Near Valparaíso, Chili, June, 1885 (no. 1525) and Sorata, 10000 ft., Feb., 1886 (no. 1525). The same as Mandon's no. 1036.

**Sarcogonum Chilensis** (Meissn.) (*Muhlenbeckia Chilensis* Meissn.; DC. Prod. 14: 148). Vic. La Paz, 10000 ft., Apr., 1885 (no. 1026). The same as Lechler's no. 541.

*Sarcogonum fruticosum* (Walp.) Rusby, Mem. Torr. Club, 4: 251. Vic. La Paz, 10000 ft., Apr., 1885 (no. 1962). The same as no. 132.

*Sarcogonum tannifolium* (H.B.K.) Rusby, Mem. Torr. Club, 6: 111. Sorata, 8000 ft., Feb., 1886 (no. 628), and Unduavi, 8000 ft., Oct., 1885 (no. 1426).

*Sarcogonum vulcanicum* (Endl.) Rusby, Mem. Torr. Club, 4: 252. Vic. La Paz, 10000 ft., Oct., 1885 (no. 630).

*Uvifera Illhaensis* (Wedd.) Kuntze, Rev. Gen. Pl. 561 (*Coccoloba Illhaensis* Wedd. Ann. Sci. Nat. III. 10: 258. 1850. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 1380).

*Uvifera strobilulifera* (Meissn.) (*Coccoloba strobilulifera* Meissn.; Mart. Fl. Bras. 5<sup>1</sup>: 25). Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2624).

***Uvifera Meissneriana* Britton, sp. nov.**

Younger portions, inflorescence and lower leaf-surfaces pubescent and slightly ferruginous: branchlets stout, strongly striate or costate: petioles 5 mm. long, very stout and broad: blades 5-1.5 dm. long, 3-6 cm. broad, obovate, abruptly and acutely short-pointed, rigid, pale-green, the coarsely reticulate slender venation prominent on both sides: spikes sessile, 5-6 cm. long, the rachis stout, coarsely angled, densely flowered: catkins 6-8 cm. long, 5 or 6 mm. thick, densely flowered, deep-brown: pedicels 1-2 mm. long, stout: perianth 2 mm. long, the segments ovate or oval, obtuse: filaments about 1 mm. long, flattened and much broadened below, the anthers less than .5 mm. long: pistil about 1 mm. long, the ovary conical-ovoid, the style stout with slender branches.

Guanai, 2000 ft., May, 1886 (no. 1918).

Mr. Bang's no. 1595, probably collected at the same place, is the same, in fruit. The fruit is 5 mm. long, globular-ovoid, obtuse, lightly angled, deep-brown.

*Triplaris hispida* Britton, Mem. Torr. Club, 6: 111. Guanai, 2000 ft., May, 1886 (no. 1309), and Beni River, July, 1886 (no. 1424).

***Triplaris efistulifera* sp. nov.**

Pistillate plant, in fruit, only seen: glabrous, except the ferruginous tomentose inflorescence: branches, elongated, blackish, solid, the internodes about 2 cm. long: sheaths annular, about 1 cm. long: petioles .7-1 cm. long, very broad, blackish: blades 1.5 dm. long, 6 cm. broad, oval, blunt at the base, acuminate, thickish, lightly shining above, pale underneath, where the midrib and about 14 pairs of upwardly curved secondaries are very prominent, the venation very finely reticulate: spikes terminal, paniced,

.5–1 cm. long, 1 cm. thick, subtended by sheaths similar to those of the leaves: bracts sessile, nearly 1 cm. long, splitting through the lower side, hirsute: pedicel 3 mm. long, very stout, densely yellowish hirsute, lightly recurved, the fruit disarticulating from its blackish summit: tube of the perianth 1.5–2 cm. long, contracted toward the summit and above the fruit, somewhat dilated, pubescent, the outer lobes nearly 3 cm. long, nearly 1 cm. broad, oblanceolate, obtuse, red, strongly veined, the inner nearly 2 cm. long, linear, obtusish, thick and rigid, lying closely in the angles between the wings of the smooth fruit, which is 1.5 cm. long, inclusive of the styles, nearly 1 cm. broad, strongly winged, short beaked: the persistent styles 2–3 mm. long.

Yungas, 6000 ft., 1885 (no. 1425).

***Triplaris Boliviana* Britton, sp. nov.**

Twigs and veins of the lower leaf-surface minutely puberulent, the inflorescence gray-tomentose: branchlets fistulous, very stout, reddish, the sheaths mere rings: petiole (but one seen) 1.5 cm. long, 4 mm. broad, very stout: blade 3.5 dm. long, 2 dm. broad, regularly ovate, rounded at the base, acute (?) at the apex, entire, thickish, the terete and very stout midrib, and about 25 pairs of nearly straight secondaries very prominent underneath, the latter spreading at an angle of about 60°, interarching near the margin, connected by the crooked tertiaries: spikes fascicled along the rachis, mostly branched at the base, .75–2.5 dm. long, 6 or 7 mm. thick, with the flowers not yet expanded, very densely flowered, gray-tomentose: bracts 3 mm. long, 5 mm. broad when flattened, densely white-hirsute, the bractlets similar but smaller: buds globoidal, a little more than 1 mm. in diameter: perianth hirsute, deeply parted, the lobes 1.25 mm. long, oblong, obtuse: stamens exserted, the anthers reddish, large: pistillate flowers not seen.

Junction of Rivers Beni and Madre de Dios, Aug., 1886 (no. 1243).

PIPERACEAE.

*Piper angustifolium* Fl. Per. 1: 38. Yungas, 6000 ft., 1885 (no. 2175).

*Piper Blanchetii* (Miq.) C. DC. Prod. 16: 318 (*Artanthe Blanchetii* Miq. Syst. Pip. 473). Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2183).

*Piper calocoma* (Miq.) C. DC. Prod. 16: 264 (*Artanthe calo-*



*coma* Miq.; Seem. Bot. Voy. Herald 199). Guanai, 2000 ft., May, 1886 (no. 2190).

*Piper Hookeriana* (Miq.) C. DC. Prod. 16: 292 (*Artanthe Hookeriana* Miq.; Hook. Lond. Journ. Bot. 4: 446. 1845). Mapiri, 2500 ft., May, 1886 (no. 2187).

*Piper obliquum* R. & P. Fl. Per. 1: 37. pl. 63. f. a. Mapiri, 5000 ft., Apr., 1886 (no. 2174).

*Piper lanceolatum* R. & P. Fl. Per. 1: 36. Unduavi, 8000 ft., Oct., 1885 (no. 2178).

*Piper Gaudichaudianum* Kunth in Linnaea, 13: 639. 1839. Guanai, 2000 ft., May, 1886 (no. 2179).

*Piper Mapirense* C. DC. Bull. Torr. Club, 19: 47. 1892. Mapiri, 2500 ft., May, 1886 (no. 2180).

*Piper oxyphyllum* C. DC. Bull. Torr. Club, 19: 48. 1892. Yungas, 4000 ft., 1885 (no. 2176).

*Piper Pavonii* (Miq.) C. DC. Prod. 16: 294. Mapiri, 5000 ft., April, 1886 (no. 2185). The same as Bang's no. 2642.

*Piper psilophyllum* C. DC. Bull. Torr. Club, 19: 47. 1892. Unduavi, 8000 ft., Oct., 1885 (no. 2186).

*Piper pseudo-peruvianum* C. DC. Prod. 16: 282. Mapiri, 2500 ft., May, 1886 (no. 2181).

*Piper Rusbyi* C. DC. Bull. Torr. Club, 19: 47. 1892. Yungas, 4000 ft., 1885 (no. 2188).

*Piper tenue* H.B.K. Nov. Gen. et Sp. 1: 560. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2184). The same as Mathew's no. 1708.

*Piper tuberculatum* Jacq. Ic. Pl. Par. 2: 2. pl. 21. Guanai, 2000 ft., May, 1886 (no. 2177). The same as Holton's no. 239.

*Piper umbellatum* L. Sp. Pl. 30. Mapiri, 5000 ft., April, 1886 (no. 2173).

*Piper Warakaboura* (Miq.) C. DC. Prod. 16: 257 (*Artanthe Warakaboura* Miq.; Hook. Lond. Journ. Bot. 4: 469. 1845. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2182).

*Piper* sp. undeterminable. Yungas, 6000 ft., 1885 (no. 2189).

*Peperomia ciliata* H.B.K. Nov. Gen. et Sp. 1: 68. Unduavi, 8000 ft., Oct., 1885 (no. 2169); Yungas, 4000 ft. (no. 2195) and 6000 ft. (no. 2193).

*Peperomia circinata* Link. Bot. Jahrb. **1**: 64. 1820. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2208).

*Peperomia distachya* (L.) A. Dietr. Sp. Pl. **1**: 156 (*Piper distachyon* L. Sp. Pl. 30). Mapiri, 2500 ft., May, 1886 (no. 2192).

*Peperomia talinifolia longipetiolata* C. D.C. Yungas, 6000 ft., 1885 (nos. 2200 and 2212) and Mapiri, 2500 ft., May, 1886 (no. 2215).

*Peperomia galioides* H.B.K. Nov. Gen. et Sp. **1**: 71. *pl.* 17. Mapiri, 5000 ft., Apr., 1886 (no. 2201).

*Peperomia heterophylla* Miq.; Hook. Lond. Journ. Bot. **4**: 415. 1845. Mapiri, 5000 ft., Apr., 1886 (no. 2209).

*Peperomia heterostachya* A. Dietr. Sp. Pl. **1**: 717 (index). Yungas, 6000 ft., 1885 (no. 2213).

*Peperomia Hilariana* Miq. Syst. 89? Yungas, 6000 ft., 1885 (no. 2211).

*Peperomia Langsdorffii* Miq. Syst. 116. Unduavi, 8000 ft., Oct., 1885 (no. 2197).

*Peperomia Larecajana* C. DC. Prod. **16**: 406. Yungas, 4000 ft., 1885 (no. 2210a).

*Peperomia linearis* C. DC. Journ. Bot. **4**: 145. 1866. Yungas, 6000 ft., 1885 (no. 2206).

*Peperomia melanostigma* Miq. Syst. 90. Yungas, 6000 ft., 1885 (nos. 2191 and 2199).

*Peperomia myriocarpa* Miq. Syst. 185. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 2194).

*Peperomia nummularifolia* (Sw.) H.B.K. Nov. Gen. et Sp. **1**: 66 (*Piper nummularifolium* Sw. Prod. Veg. Ind. Occ. 16). Falls of Madeira, Brazil, Oct., 1886 (no. 2207).

*Peperomia pseudo-furcata* C. DC. Prod. **16**: 399. Mapiri, 5000 ft., Apr., 1886 (no. 2205).

*Peperomia reflexa* A. Dietr. Sp. **1**: 180. Yungas, 6000 ft., 1885 (no. 2203) (?) and Falls of Madeira, Brazil, Oct., 1886 (no. 2202).

*Peperomia psilostachya* C. DC. in M. DC. Phyll. Yungas, 6000 ft., 1885 (no. 2210).

*Peperomia Rusbyi* C. DC. Bull. Torr. Club, **19**: 49. 1892. Yungas, 6000 ft., 1885 (no. 2214).

*Peperomia septemnervis* R. & P. Pl. Per. **1**: 31. *pl.* 47. *f. c.* Yungas, 6000 ft., 1885 (no. 2198).

Nos. 2204, 2216 and 2588 are species of *Peperomia*, collected at Unduavi, Oct., 1885.

CHLORANTHACEAE

*Tafallaea glabrata* (H.B.K.) Rusby, Mem. Torr. Club, 4: 252. Mapiri, 2500 ft., May, 1886 (no. 2499), and Yungas, 4000 ft., 1885 (no. 2498).

MYRISTICACEAE

*Myristica sebifera* (Aubl.) Sw. Fl. Ind. Occ. 1129. Mapiri, 2500 ft., May, 1886 (no. 1216) and Guanai, 2000 ft., May, 1886 (no. 1217).

MONIMIACEAE

*Mollinedia Rusbyana* Perkins. Mapiri, 2500 ft., May, 1886 (no. 2620). The same as Bang's no. 2430. Also collected by Pearce, Yungas, Jan., 1886.

*Peumus Boldus* Molino Sagg, Chili, 185. Near Valparaiso, Chili, June, 1885.

*Siparuna limoniodora* (R. & P.) A. DC. Prod. 16: 646. Yungas, 6000 ft., 1885 (no. 2485). The same as Bang's no. 1183.

*Siparuna obovata* (Gardn.) A. DC. Prod. 16: 644 (*Citrosma obovata* Gardn. Hook. Lond. Journ. Bot. 2: 343. 1843). Yungas, 4000 ft., 1885 (no. 2586).

*Siparuna Apiosyce* (Mart.) A. DC. Prod. 16: 645 (*Citrosma Apiosyce* Mart. ex Tul. Ann. Sci. Nat. IV. 4: 34. 1855). Mapiri, 5000 ft., Apr., 1886 (no. 2486).

LAURACEAE

*Aniba Amazonica* (Meissn.) Mez. Jahrb. Berlin 5: 69. 1889 (*Aydcendron Amazonicum* Meissn. in DC. Prod. 15: 89). Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 709).

*Endlichera hirsuta* (Schott.) Nees. in Linnaea 8: 38. 1833 (*Cryptocarya hirsuta* Schott. in Spreng. Syst. 4: App. 405). Yungas, 6000 ft., 1885 (no. 2506), and Beni River, July, 1886 (no. 710).

*Endlichera dysodantha* (R. & P.) Mez. Jahrb. Berlin, 5: 119.

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1889 (*Laurus dysodantha* R. & P. Fl. Per. 4: *pl.* 355). Mapiri, 2500 ft., May, 1886 (no. 2671).

*Persea gratissima* Gaertn. Fruct. 2: 222 (no. 2533).

*Persea laevigata* H.B.K. Nov. Gen. et Sp. 3: 157. Yungas, 4000 ft., 1885 (no. 2505).

*Persea scoparia* Mez. Arb. Bot. Gart. Breslau, 115 (?). Mapiri, 2500 ft. (no. 2538).

*Ocotea Guyanensis* Aubl. Pl. Guy. 2: 781. *pl.* 310. Guanai, 2000 ft., May, 1886 (no. 2639).

*Ocotea Rusbyana* Mez. Jahrb. Berlin, 5: 303. 1889. Guanai, 2000 ft., May, 1886 (no. 2674).

*Ocotea laxiflora* (Meissn.) Mez. l. c. 371 (*Mespilodaphne laxiflora* Meissn.; DC. Prod. 15: 107. Guanai, 2000 ft., May, 1886 (no. 2672).

*Nectandra Brittonii* Mez. l. c. 435. Guanai, 2000 ft., May, 1886 (no. 2602).

*Nectandra globosa* (Aubl.) Mez. l. c. 415 (*Laurus globosus* Aubl. Pl. Gen. 1: 364). Guanai, 2000 ft., May, 1886 (no. 706), and Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 708).

*Nectandra laevis* Mez. l. c. 451. Mapiri, 5000 ft., Apr., 1886 (no. 705).

*Nectandra lanceolata* Nees et Mart. Linnaea 8: 47. 1833. Beni River, July, 1886 (no. 711).

*Nectandra cuspidata* Nees et Mart. Syst. Laurin, 330. Mapiri, 2500 ft., May, 1886 (no. 707).

*Nectandra berchemifolia* Meissn.; DC. Prod. 15: 154. Mapiri, 2500 ft., May, 1886 (no. 712).

LORANTHACEAE

*Phrygilanthus tetrandrus* (R. & P.) Eichler; Mart. Fl. Bras. 5<sup>2</sup>: 47 (*Loranthus tetrandrus* R. & P. Fl. Per. 3: 46. *pl.* 275). Near Valparaiso, Chile, June, 1885 (nos. 1531 and 1532).

*Phrygilanthus punctatus* (R. & P.) Eichler, l. c. (*Loranthus punctatus* R. & P. l. c. 47. *pl.* 277. *f. a*). Mapiri, 10000 ft., Apr., 1886 (no. 1530).

*Phrygilanthus eugenoides* (H.B.K.) Eichler, l. c. 50 (*Loranthus eugenoides* H.B.K. Nov. Gen. et Sp. 3: 435). Mapiri, 5000 ft., Apr., 1886 (no. 1823). The same as Mandon's no. 1470.

*Struthanthus concinnus* Mart. Flora, 1: 104. 1830. Yungas, 6000 ft., 1885 (no. 1534). Apparently the same as Burchell's no. 3693.

*Phthirusa pyrifolia* (H.B.K.) Eichler, l. c. 63 (*Loranthus pyrifolius* H.B.K. Nov. Gen. et Sp. 3: 441. Junc. of Rivers Beni and Madre de Dios, Aug., 1886 (no. 1536).

*Oryctanthus botryostachys* Eichler, l. c. 89. pl. 29. (?) Reis, 1500 ft., June, 1885 (no. 1545). The same in Jenman's no. 2532 and Traill's no. 785 from the upper Amazon.

***Loranthus* (?) *cubeoides* sp. nov.**

Glabrous: branches elongated, stoutish, mostly straight and little-branched, terete, striate, dark-colored, the internodes 3 or 4 cm. long, petioles 4-7 mm. long, stout: blades 3-6 cm. long, 2-3 cm. broad, ovate, rounded at the base, acuminate and acute, entire, moderately thick, the midrib and 9 or 10 irregular pairs of secondaries moderately prominent on the lower side; spikes 2-4 cm. long, short-peduncled, erect or ascending, slender, angled, the flowers about 3 or 4 cm. apart: pedicels 3 mm. long, stout, slightly thicker at the summit, angled, divergent, 2- or occasionally 3-flowered at the summit: calyx about 1 mm. long and broad, minutely and sharply toothed.

Mapiri, 5000 ft., Apr., 1886 (no. 1535).

*Phoradendron acinacifolium* Eichl., in Mart. Fl. Bras. 5<sup>2</sup>: 117. Falls of Maderia, Brazil, Oct., 1886 (no. 1542).

*Phoradendron Balleianum* (Seem.) Eichl. l. c. 134 (*Viscum Balleianum* Seem. Bot. Voy. Herald, no. 295. pl. 63). Yungas, 6000 ft. 1885 (no. 1540) (?) The same as Mandon's no. 1468.

*Phoradendron clavatum* (Benth.) Eichl. l. c. 107 (*Viscum clavatum* Benth. Pl. Hartw. 189). Ingenio del Oro, 10000 ft., May, 1886 (no. 1541).

*Phoradendron coriaceum* Eichl. l. c. 121. Mapiri, 2500 ft., May, 1886 (no. 1546).

*Phoradendron latifolium* (Sw.) Griseb. Mem. Am. Acad. II. 8: 191. 1861 (*Viscum latifolium* Sw. Fl. Ind. Occ. 1: 268). Mapiri, 2500 ft., May, 1886 (no. 1547). It is the same as a specimen in Herb. Kew., numbered "904," from Santarem; also collected by Jenman.

*Phoradendron Mandonii* Eichl. in Mart. Fl. Bras. 5<sup>2</sup>: 124 in

*obs.* Yungas, 6000 ft., 1885 (no. 1387). The same as Mandon's no. 497.

***Phoradendron mesembryanthemifolium* Griseb.**

Lechl. Berb. Amer. Austr. 59 (name only)

Glabrous, very greatly and harshly wrinkled in drying: stems much-branched, the branches sub-erect, rather slender for the genus, sparsely leafy, the leaves falling readily: leaves sessile, about 1.5 cm. long, 3–5 mm. broad, oblanceolate, broadest near the blunt apex, very thick and fleshy: spikes 1.5–3 cm. long, nearly as broad as the leaves, 2–3-jointed, the joints gradually and regularly broadening upward to about twice the width of the basal portion: bracts (the pair) about 3.5 mm. broad, the upper margin about horizontal, each equilaterally triangular in lateral outline, acute: flowers moderately numerous, mostly above the middle of the joint, moderately imbedded: perianth-segments triangular ovate, obtuse, nearly 1 mm. long and broad.

Sorata, 8000 ft., Feb., 1886 (no. 1537).

The same as Mandon's no. 1466 and Bang's nos. 1926 and 2035.

***Phoradendron Pearcei* sp. nov.**

Plant drying of a deep yellow color: stems 1–1.5 dm. long, densely short-branched, hispid with sharp upwardly directed warts: petioles 2 mm. long, 1 mm. broad, strongly concave on the upper surface: blades 3 or 4 mm. long, 4 or 5 mm. broad, ovate, the outline rounded: spikes 3–5 mm. long, 1–5-flowered, short-peduncled, the lower bracts small, the upper semi-circular, connate: sepals nearly blood red in color, about 1 mm. long and rather broader: pistil globose, less than .25 mm. in diameter: staminate flowers not seen.

Unduavi, 8000 ft., Oct., 1885 (no. 1539). The same collected by Bang without number.

***Phoradendron Rusbyi* Britton, sp. nov.**

Glabrous, the leaves finely papillose: stems stoutish but weak, terete, irregularly branched, the branches elongated: petioles about 1 cm. long, very stout: blades .75–1.25 dm. long, 4–7 cm. broad, inaequilaterally ovate, rather abruptly narrowed into the petiole, acuminate, the actual apex not present in the specimens, entire, very thick, slenderly 5-nerved, the venation inconspicuous: spikes loosely paniced, the rachis very strongly flattened, the divisions gradually broadened toward the summit,

where it is sometimes 1-1.5 cm. broad, the branches elongated, divergent or sometimes slightly drooping: spikes 1.5-4 cm. long, about 5 mm. broad, the joints mostly 5-7 mm. long, irregular in number, mostly floriferous throughout their length, the flowers rather deeply immersed.

Mapiri, 5000 ft., April, 1886 (no. 1543).

**Phoradendron inaequidentatum** sp. nov.

Glabrous, the leaves finely papillose: branchlets short, stout, divergent: petioles .5-1 cm. long, very stout, margined: blades 5-7 cm. long, 3-4 cm. broad, obovate, abruptly contracted into the petiole, lightly, and for the most part very inaequilaterally retuse at the rounded or sub-truncate summit, entire, extremely thick: spikes mostly solitary or two together, simple, about 2 or 2.5 cm. long, 3 mm. broad, exclusive of the fruit: the joints 2-4 mm. long, 2-flowered at the summit, the flowers deeply immersed in pits having a sharply elevated light-colored, thin margin: fruit 4 mm. long, 3.5 mm. broad, conically ovoid, blunt or truncate, light-brown and granular, the summit lighter.

Guanai, 2000 ft., May, 1886 (no. 1544).

SANTALACEAE

*Quinchemaliium majus* Brongn. Voy. Coquille. *pl. 51.f. a.* Near La Paz, 10000 ft., Apr., 1885 (no. 676). The same as Mandon's no. 1044.

EUPHORBIACEAE

*Euphorbia geniculata* Orteg. Hort. Matr. Dec. 18. Tacna, Chile, Mar., 1885 (no. 890); Guanai, 2000 ft., May, 1886 (no. 892); Falls of Madeira, Brazil, Oct., 1886 (no. 891). Also growing abundantly at Mapiri, in Cinchona plantations, as a weed.

*Euphorbia chamaesyce* L. Sp. Pl. 455? Vic. La Paz, 10000 ft., April, 1885 (no. 893).

*Euphorbia hypericifolia* L. Sp. Pl. 454? Vic. La Paz, 10000 ft., April, 1885 (no. 1375). The same as Mandon's no. 1063 and Bang's no. 2.

*Euphorbia Peplus* L. Sp. Pl. 456. Vic. La Paz, 10000 ft., April, 1885 (nos. 896, 898 and 899), and near Valparaíso, Chile, June, 1885 (no. 897). The same as Mandon's no. 1087. Grows very abundantly in cultivated ground, especially where irrigated, and on shaded, rocky banks.